

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

Puff - Dragon Fruit Pineapple

Batch ID or Lot Number: 040323	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 04Apr2023	Started: 04Apr2023	Received: 04Apr2023	

Cannabinoids

Test ID: T000240450

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.161	0.515	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.148	0.471	ND	ND	
Cannabidiol (CBD)	0.446	1.294	ND	ND	
Cannabidiolic Acid (CBDA)	0.458	1.327	ND	ND	
Cannabidivarin (CBDV)	0.106	0.306	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.191	0.554	ND	ND	
Cannabigerol (CBG)	0.092	0.292	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.383	1.222	ND	ND	
Cannabinol (CBN)	0.119	0.381	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.261	0.834	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.456	1.456	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.414	1.322	9.620	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.367	1.171	ND	ND	
Tetrahydrocannabivarin (THCV)	0.083	0.266	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.324	1.033	ND	ND	
Total Cannabinoids			9.620	0.00	
Total Potential THC			9.620	0.00	
Total Potential CBD			ND	ND	

Final Approval

 Sam Smith
04Apr2023
12:54:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer
04Apr2023
12:59:00 PM MDT

APPROVED BY / DATE

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Pesticides

Test ID: T000240451

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	382 - 2811	ND		Malathion	293 - 2714	ND
Acephate	37 - 2762	ND		Metalaxyl	43 - 2733	ND
Acetamiprid	42 - 2735	ND		Methiocarb	42 - 2732	ND
Azoxystrobin	42 - 2738	ND		Methomyl	40 - 2755	ND
Bifenazate	40 - 2715	ND		MGK 264 1	168 - 1617	ND
Boscalid	43 - 2784	ND		MGK 264 2	134 - 1131	ND
Carbaryl	42 - 2710	ND		Myclobutanil	48 - 2792	ND
Carbofuran	43 - 2720	ND		Naled	49 - 2788	ND
Chlorantraniliprole	37 - 2746	ND		Oxamyl	40 - 2775	ND
Chlorpyrifos	46 - 2778	ND		Paclobutrazol	46 - 2721	ND
Clofentezine	269 - 2773	ND		Permethrin	306 - 2775	ND
Diazinon	282 - 2754	ND		Phosmet	41 - 2765	ND
Dichlorvos	296 - 2724	ND		Prophos	289 - 2725	ND
Dimethoate	43 - 2747	ND		Propoxur	41 - 2729	ND
E-Fenpyroximate	291 - 2794	ND		Pyridaben	300 - 2826	ND
Etofenprox	43 - 2836	ND		Spinosad A	34 - 2246	ND
Etoxazole	294 - 2770	ND		Spinosad D	50 - 512	ND
Fenoxycarb	39 - 2742	ND		Spiromesifen	266 - 2783	ND
Fipronil	35 - 2930	ND		Spirotetramat	274 - 2762	ND
Flonicamid	47 - 2779	ND		Spiroxamine 1	18 - 1189	ND
Fludioxonil	277 - 2816	ND		Spiroxamine 2	25 - 1577	ND
Hexythiazox	44 - 2808	ND		Tebuconazole	283 - 2715	ND
Imazalil	279 - 2726	ND		Thiacloprid	44 - 2755	ND
Imidacloprid	48 - 2748	ND		Thiamethoxam	43 - 2798	ND
Kresoxim-methyl	25 - 2800	ND		Trifloxystrobin	43 - 2770	ND

Final Approval


Karen Winternheimer
07Apr2023
11:15:00 AM MDT
PREPARED BY / DATE


Sam Smith
07Apr2023
11:22:00 AM MDT
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000240452

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval

	Eden Thompson-Wright 07Apr2023 03:00:00 PM MDT		Brett Hudson 07Apr2023 03:26:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

Heavy Metals

Test ID: T000240453

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.11	ND	
Cadmium	0.04 - 4.27	ND	
Mercury	0.04 - 4.16	ND	
Lead	0.04 - 4.17	ND	

Final Approval

	Sam Smith 07Apr2023 03:09:00 PM MDT		Karen Winternheimer 07Apr2023 03:11:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

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<https://results.botanacor.com/api/v1/coas/uuid/29144fba-464c-474a-a2c2-a37b44110c4e>

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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